



SEQUENCE LISTING

> BISTRUP, ANNETTE
ROSEN, STEVEN D.
HEMMERICH, STEFAN

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<130> UCAL-107CON

<140> 09/816,825

<141> 2001-03-22

<150> 09/045,284

<151> 1998-03-20

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<212> DNA

<213> Homo sapiens

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 Ser Leu Ser Met Lys Ala Gln Pro Glu Arg Met His Val Leu Val Leu
 35 40 45
 Ser Ser Trp Arg Ser Gly Ser Ser Phe Val Gly Gln Leu Phe Gly Gln
 50 55 60
 His Pro Asp Val Phe Tyr Leu Met Glu Pro Ala Trp His Val Trp Met
 65 70 75 80
 Thr Phe Lys Gln Ser Thr Ala Trp Met Leu His Met Ala Val Arg Asp
 85 90 95
 Leu Ile Arg Ala Val Phe Leu Cys Asp Met Ser Val Phe Asp Ala Tyr
 100 105 110
 Met Glu Pro Gly Pro Arg Arg Gln Ser Ser Leu Phe Gln Trp Glu Asn
 115 120 125
 Ser Arg Ala Leu Cys Ser Ala Pro Ala Cys Asp Ile Ile Pro Gln Asp
 130 135 140
 Glu Ile Ile Pro Arg Ala His Cys Arg Leu Leu Cys Ser Gln Gln Pro
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 Phe Glu Val Val Glu Lys Ala Cys Arg Ser Tyr Ser His Val Val Leu
 165 170 175
 Lys Glu Val Arg Phe Phe Asn Leu Gln Ser Leu Tyr Pro Leu Leu Lys
 180 185 190
 Asp Pro Ser Leu Asn Leu His Ile Val His Leu Val Arg Asp Pro Arg
 195 200 205
 Ala Val Phe Arg Ser Arg Glu Arg Thr Lys Gly Asp Leu Met Ile Asp
 210 215 220
 Ser Arg Ile Val Met Gly Gln His Glu Gln Lys Leu Lys Lys Glu Asp
 225 230 235 240
 Gln Pro Tyr Tyr Val Met Gln Val Ile Cys Gln Ser Gln Leu Glu Ile
 245 250 255
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 260 265 270
 Leu Val Arg Tyr Glu Asp Leu Ala Arg Ala Pro Val Ala Gln Thr Ser
 275 280 285
 Arg Met Tyr Glu Phe Val Gly Leu Glu Phe Leu Pro His Leu Gln Thr
 290 295 300
 Trp Val His Asn Ile Thr Arg Gly Lys Gly Met Gly Asp His Ala Phe
 305 310 315 320
 His Thr Asn Ala Arg Asp Ala Leu Asn Val Ser Gln Ala Trp Arg Trp
 325 330 335
 Ser Leu Pro Tyr Glu Lys Val Ser Arg Leu Gln Lys Ala Cys Gly Asp
 340 345 350
 Ala Met Asn Leu Leu Gly Tyr Arg His Val Arg Ser Glu Gln Glu Gln
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<221> misc_feature
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<221> misc_feature
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<221> misc_feature
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<221> misc_feature
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<221> misc_feature

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 <223> n = inosine
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 <223> Xaa = V or F

<221> VARIANT
 <222> (11)...(11)
 <223> Xaa = Q or E

<221> VARIANT
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<221> VARIANT
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 <223> Xaa = D or E

<221> VARIANT
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 <223> Xaa = F or Y

<221> VARIANT
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 <223> Xaa = F or Y or M

<221> VARIANT
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 <223> Xaa = L or V or A

<221> VARIANT
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 <211> 16
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 <213> Artificial Sequence

<220>
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<221> VARIANT
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<221> VARIANT
 <222> (4)...(4)
 <223> Xaa = K or H

<221> VARIANT
<222> (5)...(5)
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<221> VARIANT
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<221> VARIANT
<222> (14)...(14)
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<222> (15)...(15)
<223> Xaa = V or I

<221> VARIANT
<222> (16)...(16)
<223> Xaa = L or A or F

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<222> (7)...(7)
<223> Xaa = any amino acid

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<221> VARIANT
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<223> Xaa = L or M

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<223> Xaa = L or V

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<223> Xaa = A or V

<221> VARIANT
<222> 2, 3, 6, 7, 18, 19
<223> Xaa = any amino acid

<400> 12

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<210> 13
 <211> 2043
 <212> DNA
 <213> Homo sapiens

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 aaa 2043

<210> 14
 <211> 1926
 <212> DNA
 <213> mouse

<400> 14
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<210> 15
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<213> mouse

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35 40 45
Ser Trp Arg Ser Gly Ser Ser Phe Val Gly Gln Leu Phe Gly Gln His
50 55 60
Pro Asp Val Phe Tyr Leu Met Glu Pro Ala Trp His Val Trp Met Thr
65 70 75 80
Phe Thr Ser Ser Thr Ala Trp Lys Leu His Met Ala Val Arg Asp Leu
85 90 95
Leu Arg Ser Val Phe Leu Cys Asp Met Ser Val Phe Asp Ala Tyr Met
100 105 110
Asn Pro Gly Pro Arg Lys Gln Ser Ser Leu Phe Gln Trp Glu Gln Ser
115 120 125
Arg Ala Leu Cys Ser Ala Pro Val Cys Asp Phe Phe Pro Ala His Glu
130 135 140
Ile Ser Ser Pro Lys His Cys Lys Leu Leu Cys Gly Gln Gln Pro Phe
145 150 155 160
Asp Met Val Glu Lys Ala Cys Arg Ser His Gly Phe Val Val Leu Lys
165 170 175
Glu Val Arg Phe Leu Ser Leu Gln Ala Leu Tyr Pro Leu Leu Thr Asp
180 185 190

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Pro Ser Leu Asn Leu His Val Val His Leu Val Arg Asp Pro Arg Ala
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 Val Phe Arg Ser Arg Glu His Thr Thr Ile Glu Leu Met Val Asp Ser
 210 215 220
 His Ile Val Leu Gly Gln His Leu Glu Thr Ile Lys Glu Glu Asp Gln
 225 230 235 240
 Pro Tyr Tyr Ala Met Lys Ile Ile Cys Lys Ser Gln Val Asp Ile Val
 245 250 255
 Lys Ala Ile Gln Thr Leu Pro Glu Ala Leu Gln Gln Arg Tyr Leu Phe
 260 265 270
 Leu Arg Tyr Glu Asp Leu Val Arg Ala Pro Leu Ala Gln Thr Thr Arg
 275 280 285
 Leu Tyr Lys Phe Val Gly Leu Asp Phe Leu Pro His Leu Gln Thr Trp
 290 295 300
 Val Tyr Asn Val Thr Arg Gly Lys Gly Met Gly Gln His Ala Phe His
 305 310 315 320
 Thr Asn Ala Arg Asn Ala Leu Asn Val Ser Gln Ala Trp Arg Trp Ser
 325 330 335
 Leu Pro Tyr Glu Lys Val Ser Gln Leu Gln Asp Ala Cys Gly Glu Ala
 340 345 350
 Met Asp Leu Leu Gly Tyr Leu Gln Val Arg Ser Gln Gln Glu Gln Gly
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 Phe Arg Glu Gly
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<210> 16
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 <212> PRT
 <213> Artificial Sequence

<220>
 <223> synthetic peptide

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 Arg Ser Arg Pro Lys Ala Leu Gln Glu Arg Tyr Leu Leu Val Arg Tyr
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 Glu Asp Leu Ala Arg Ala Pro
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<210> 17
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<220>
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Leu Asp Leu Lys	Val Ile His	Leu Val Arg Asp	Pro Arg Ala Val Ala
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Ser Ser Arg Pro	Asp Trp Leu	Gln Gly His Tyr	Leu Val Val Arg Tyr
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Glu Asp Leu Val	Gly Asp Pro		
65	70		

<210> 18
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Ala Ser Arg Pro Pro Trp Leu Lys Gly Lys Tyr Met Leu Val Arg Tyr
50 55 60
Glu Asp Leu Ala Arg Asn Pro
65 70

<210> 19
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Leu Asp Leu Arg Val Ile Gln Leu Val Arg Asp Pro Arg Ala Val Leu
35 40 45
Ala Ser Arg Pro Ala Trp Leu Arg Gly Arg Tyr Met Leu Val Arg Tyr
50 55 60
Glu Asp Val Ala Arg Gly Pro
65 70